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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/942,939	08/31/2001	Min Scok Oh	P-0261	8961	
34610 7	590 08/16/2004		EXAM	INER	
	FLESHNER & KIM, LLP			LAMARRE, GUY J	
P.O. BOX 221200 CHANTILLY, VA 20153			ART UNIT	PAPER NUMBER	
CHANTILLY,	VA 20153		2133		
			DATE MAILED: 08/16/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.



<i>"</i> \$		Application //			
	Application No.	Applicant(s)			
	09/942,939	OH, MIN SEOK			
Office Action Summary	Examiner	Art Unit			
The MAH INO DATE of this accommissation of	Guy J. Lamarre, P.E.	2133			
The MAILING DATE of this communication appearing for Reply	ppears on the cover sheet w	un die con espondence dadiess			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a recommendation of the period for reply is specified above, the maximum statutory perions failure to reply within the set or extended period for reply will, by status any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a  sply within the statutory minimum of thi  d will apply and will expire SIX (6) MO  ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 31					
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	r <i>Ex par</i> te Quayle, 1935 C.	D. 11, 453 U.G. ∠13.			
Disposition of Claims					
4) □ Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on 8/31/01 is/are: a) Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	accepted or b) objected the drawing(s) be held in abey rection is required if the drawing	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore  a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur  * See the attached detailed Office action for a	ents have been received. ents have been received in priority documents have been reau (PCT Rule 17.2(a)).	Application No en received in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date 8/31/01.	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152) 			

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Art Unit: 2133

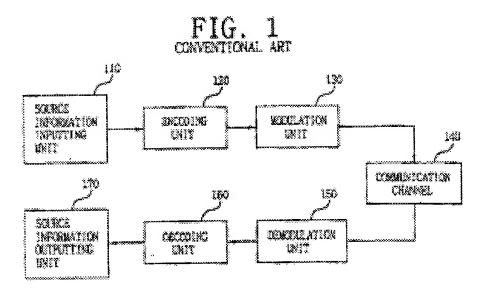
#### **DETAILED ACTION**

- 1. Applicants' IDS of 8/31/01 have been entered. The Examiner has considered the IDS.
- 1.1 Pursuant to 35 USC 131, Claims 1-7 are presented for examination.

## Claim Rejections - 35 USC ' 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2.1 Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' Admitted prior art (hereinafter Admitted prior art) in view of Jedwab et al. (US Patent No. 6,373,859; filed: 8 May 1998).

As per Claims 1-7, Admitted prior art substantially discloses the claimed RS coding conversion means, in Admitted prior Fig. 1, comprising: encoding/decoding/trellis processing/modulation/demodulation means as seen in Admitted prior Fig. 1, and means for



generating binary equivalence of <u>the</u> code by multiplying systematic generator matrix (Fig. 2 for matrix representation) and binary information sequence of <u>the</u> code; and generating row and

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column vectors (Fig. 2 for matrix representation) using the binary equivalence of the code as a component code. {See Admitted prior art Figs. 1-2, and related description.}

Not specifically described in detail in Admitted prior art is the step whereby the code is Reed-Solomon or non-binary.

However Jedwab et al., in an analogous art, discloses a generator matrix that converts plural non-binary sequences into binary sequences and vice versa for data processing. {See Jedwab et al., Id., e.g., Fig. 13 and col. 72 line 1 et seq.}

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the procedure in the Admitted prior art by including therein data conversion means as taught by Jedwab et al., because such modification would provide the procedure disclosed in Admitted prior art with a technique whereby "data processing hardware is optimized for plural binary and non-binary data streams to thereby reduce communications system costs." {See Jedwab et al., col. 72 line 45 et seq.}

## **Abstract/Claim Objections**

3. The listed claims are objected to because of the following informalities:

Claims 3, 7 recite: "the communication channel, feedbacking' instead of 'a communication channel, feeding back.'

3.1 The abstract contains typos, e.g. 'a encoding, conversing, is reduced than.'

Appropriate correction is required.

#### Conclusion

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231 or faxed to: (703) 872-9306 for all formal communications.

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, <u>Fourth Floor</u> (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy J. Lamarre, P.E., whose telephone number is (703) 305-0755. The examiner can normally be reached on Monday to Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert De Cady, can be reached at (703) 305-9595.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Information regarding the status of an application may also be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Q)

Guy J. Lamarre, P.E Primary Examiner 8/9/04